

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 8, 2004, 16:48:29 ; Search time 22 Seconds
(without alignments)
530.340 Million cell updates/sec

Title: US-09-441-723-1
Perfect score: 1185
Sequence: 1 MSLPRTVELFDVLSVPSW.....AHLGKWMGIPPAVNARL 226

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/1aa/5A-COMB.pep:*
2: /cgn2_6/prodata/2/1aa/5B-COMB.pep:*
3: /cgn2_6/prodata/2/1aa/6A-COMB.pep:*
4: /cgn2_6/prodata/2/1aa/6B-COMB.pep:*
5: /cgn2_6/prodata/2/1aa/PCTUS-COMB.pep:*
6: /cgn2_6/prodata/2/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1185	100.0	226	3	US-08-978-174-1 Sequence 1, Appli
2	1185	100.0	256	4	US-09-673-398A-189 Sequence 189, App
3	874	73.8	226	3	US-08-978-174-3 Sequence 3, Appli
4	788	66.5	150	4	US-09-621-976-4666 Sequence 4666, Ap
5	196	16.5	203	4	US-09-252-991A-17282 Sequence 17282, A
6	87	7.3	1150	4	US-09-252-991A-24671 Sequence 24671, A
7	83.5	7.0	308	4	US-08-913-815C-17 Sequence 17, Appl
8	83.5	7.0	426	4	US-09-489-039A-10286 Sequence 10286, A
9	81	6.8	555	4	US-09-543-681A-5722 Sequence 5722, Ap
10	81	6.8	911	4	US-09-688-188B-92 Sequence 92, Appl
11	81	6.8	911	4	US-09-291-417D-92 Sequence 92, Appl
12	81	6.8	966	4	US-09-688-188B-154 Sequence 154, App
13	81	6.8	966	4	US-09-291-417D-154 Sequence 154, App
14	80.5	6.8	239	2	US-08-955-714-3 Sequence 3, Appli
15	79.5	6.7	1073	4	US-09-180-245-2 Sequence 2, Appli
16	78.5	6.6	353	4	US-09-252-991A-16824 Sequence 16824, A
17	77	6.5	659	4	US-09-198-452A-432 Sequence 432, App
18	76.5	6.5	317	2	US-09-066-075-2 Sequence 2, Appli
19	76.5	6.5	317	2	US-08-518-615A-2 Sequence 2, Appli
20	76.5	6.5	317	3	US-08-951-889-2 Sequence 2, Appli
21	76.5	6.5	317	3	US-09-472-857-2 Sequence 2, Appli
22	76.5	6.5	497	1	US-08-075-193-4 Sequence 4, Appli
23	76.5	6.5	497	2	PCT-US94-06698-4 Sequence 4, Appli
24	76.5	6.5	497	5	PCT-US94-06698-4 Sequence 4, Appli
25	76	6.4	588	4	US-09-601-777-2 Sequence 2, Appli
26	75.5	6.4	1398	1	US-08-750-532-9 Sequence 9, Appli
27	75.5	6.4	1398	3	US-08-894-818B-8 Sequence 8, Appli

Query Match 100.0% ; Score 1185 ; DB 3 ; Length 226 ;

Sequence 6, Appli
Sequence 10530, A
Sequence 4583, Ap
Sequence 350, App
Sequence 352, App
Sequence 4, Appli
Sequence 4, Appli
Sequence 26, Appl
Sequence 107, App
Sequence 155, App
Sequence 107, App
Sequence 3, Appl
Sequence 6854, Ap
Sequence 3, Appli
Sequence 32, Appl

28 75.5 6.4 1398 4 US-09-445-472-6
29 75 6.3 183 4 US-09-489-039A-10530
30 75 6.3 289 4 US-09-134-001C-4583
31 74 6.2 339 4 US-09-489-847-350
32 74 6.2 554 4 US-09-489-847-352
33 74 6.2 884 4 US-09-741-150-4
34 74 6.2 884 4 US-10-160-187-4
35 74 6.2 912 4 US-09-688-188B-26
36 74 6.2 912 4 US-09-291-417D-26
37 74 6.2 968 4 US-09-688-188B-107
38 74 6.2 968 4 US-09-688-188B-155
39 74 6.2 968 4 US-09-291-417D-107
40 74 6.2 968 4 US-09-291-417D-155
41 74 6.2 2474 4 US-08-285-567C-3
42 74 6.2 2474 4 US-08-305-790B-4
43 73.5 6.2 404 4 US-09-328-352-6854
44 73.5 6.2 523 2 US-08-473-553A-3
45 73.5 6.2 869 1 US-08-188-582-32

ALIGNMENTS

RESULT 1
US-08-978-174-1
; Sequence 1, Application US/08978174
; Patent No. 6030809
; GENERAL INFORMATION:
; APPLICANT: Shah, Purvi
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: NEW GLUTATHIONE-S-TRANSFERASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA: US/08/978,174
; APPLICATION NUMBER: US/08/978,174
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0430 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 226 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BLADTUT04
; CLONE: 1554593
US-08-978-174-1

Best Local Similarity 100.0%; Pred. No. 9.7e-126;
Matches 226; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPLRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
DB 1 MGPLRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
QY 61 RKGLYMANDLKLRLHLLQPIHFPKDFLSVMEKSGLSAMRFLTAVNLEHPEMLEKASRE 120
DB 61 RKGLYMANDLKLRLHLLQPIHFPKDFLSVMEKSGLSAMRFLTAVNLEHPEMLEKASRE 120
QY 121 LMRVWSRNEDITEPOSILAAAEKAGMSAEQAQGLEKIAATPKVNQLKETTEAACRYGA 180
DB 121 LMRVWSRNEDITEPOSILAAAEKAGMSAEQAQGLEKIAATPKVNQLKETTEAACRYGA 180
QY 181 FGLPITVAHVGDGQTHMLFGSDRMELLALHLLGKWMGPIPPAVNARL 226
DB 181 FGLPITVAHVGDGQTHMLFGSDRMELLALHLLGKWMGPIPPAVNARL 226

RESULT 2

US-09-673-395A-189
; Sequence 189, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 189
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-673-395A-189

Query Match 100.0%; Score 1185; DB 4; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.2e-125;
Matches 226; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPLRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
DB 31 MGPLRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 90
QY 61 RKGLYMANDLKLRLHLLQPIHFPKDFLSVMEKSGLSAMRFLTAVNLEHPEMLEKASRE 120
DB 91 RKGLYMANDLKLRLHLLQPIHFPKDFLSVMEKSGLSAMRFLTAVNLEHPEMLEKASRE 150
QY 121 LMRVWSRNEDITEPOSILAAAEKAGMSAEQAQGLEKIAATPKVNQLKETTEAACRYGA 180
DB 151 LMRVWSRNEDITEPOSILAAAEKAGMSAEQAQGLEKIAATPKVNQLKETTEAACRYGA 210
QY 181 FGLPITVAHVGDGQTHMLFGSDRMELLALHLLGKWMGPIPPAVNARL 226
DB 211 FGLPITVAHVGDGQTHMLFGSDRMELLALHLLGKWMGPIPPAVNARL 256

RESULT 3

US-08-978-174-3
; Sequence 3, Application US/08978174
; Patent No. 6030809
; GENERAL INFORMATION:
; APPLICANT: Shah, Purvi
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.

; TITLE OF INVENTION: NEW GLUTATHIONE-S-TRANSFERASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSES: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/978,174
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0430 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 226 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: ?
US-08-978-174-3

Query Match 73.8%; Score 874; DB 3; Length 226;
Best Local Similarity 69.5%; Pred. No. 1.4e-90;
Matches 157; Conservative 38; Mismatches 31; Indels 0; Gaps 0;

QY 1 MGPLRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
DB 1 MGAPRVLEIFYDVLSPYSWLGFEILCRYQHLWNILKLPALLAGIMKDSGNQPPAMVP 60
QY 61 RKGLYMANDLKLRLHLLQPIHFPKDFLSVMEKSGLSAMRFLTAVNLEHPEMLEKASRE 120
DB 61 HKGYILKEIPLKQLFQVMSVPKDFFGSHVKGTVNAMRFLTAVSMEQPEMLEKVSRE 120
QY 121 LMRVWSRNEDITEPOSILAAAEKAGMSAEQAQGLEKIAATPKVNQLKETTEAACRYGA 180
DB 121 LMRVWSRNEDITEPOSILAAAEKAGMSAEQAQGLEKIAATPKVNQLKETTEAACRYGA 180
QY 181 FGLPITVAHVGDGQTHMLFGSDRMELLALHLLGKWMGPIPPAVNARL 226
DB 181 FGLPITVAHVGDGQTHMLFGSDRMELLALHLLGKWMGPIPPAVNARL 226

RESULT 4

US-09-621-976-4666
; Sequence 4666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21

; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 4666
; LENGTH: 150
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-4666

Query Match 66.5%; Score 788; DB 4; Length 150;
Best Local Similarity 100.0%; Pred. No. 4e-81;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGPLPRVTELVFVLSYSLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
DB 1 MGPLPRVTELVFVLSYSLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
QY 61 RGLYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPMELEKASRE 120
DB 61 RGLYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPMELEKASRE 120
QY 121 LMRVWNRNEDITEPQSILAAAEKAGMSAE 150
DB 121 LMRVWNRNEDITEPQSILAAAEKAGMSAE 150

RESULT 5

US-09-252-991A-17282
; Sequence 17282, Application US/09252991A
; Patent No. 6551795

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252.991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 17282

; LENGTH: 203

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17282

Query Match 16.5%; Score 196; DB 4; Length 203;
Best Local Similarity 26.1%; Pred. No. 5.4e-14;
Matches 55; Conservative 40; Mismatches 94; Indels 22; Gaps 5;

QY 4 LPRTVELFVLSYSLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLPKRG 63
DB 9 MSKQIEFFDFGSPPTTTLAWTQLPRIAAAHGASIAWRPMLGGVFRATGNHSPIEVPAKG 68

QY 64 LYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPMELEKASR 119
DB 69 RYTLHLRLARYAKRYGVFLAPNPAFPINTLTLM-----RGAQGYLGG-----EGFQPYLK 117

QY 120 ELMRVWNRNEDITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQKLTETEAACRYG 179
DB 118 AVFEALWVROQNLGKPEVVAQLAEAGDPDE---FLRLVGDQVKEGLKATTEAVRGG 174

QY 180 AFGLPITVAHVDDGTHMLFGSDRMELLAHL 210
DB 175 VFGAPSPFV-----GDQLFFGQDRLDVFAEAL 201

RESULT 6

US-09-252-991A-24671

; Sequence 24671, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252.991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 24671

; LENGTH: 1150

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-24671

Query Match 7.3%; Score 87; DB 4; Length 1150;
Best Local Similarity 26.4%; Pred. No. 1.6;
Matches 46; Conservative 27; Mismatches 59; Indels 42; Gaps 11;

QY 84 PKDFLSVLMKSGLSAMRFLTAVN-LEHPMELEKASRELMMRVWNRNE-----PI--TVAHVDG 192
DB 581 PEDWLC-----DGTGYDFMNOVSLQHDPRGERPLRELWQVSGRPEAFDEVVQASQL 635

QY 139 LAAAEKAGMSAEQAQGLLEKIATPKVKNQKLTETEAACRYGAFGL-----PI--TVAHVDG 192
DB 636 VLASGLAGLENLAQGLL-RVARADLAS--RDLTLGGIRRALFQLLARFPVRYTYAGACG 692

QY 193 QT-----HMLFGSDRMELLAHLIGKKWNG-----PIPPAVNARL 226
DB 693 RSVDREVFVRYAAEAAREDDLEADR-AVEDHL--ERNLGGQPLRELPGPLRL 743

RESULT 7

US-08-913-816C-17

; Sequence 17, Application US/08913816C

; Patent No. 6673576

; GENERAL INFORMATION:

; APPLICANT: USUDA, YOSHIHIRO

; APPLICANT: KAWASAKI, HISASHI

; APPLICANT: SHIMAOKA, MEGUMI

; APPLICANT: UTAGAWA, TAKAHASHI

; TITLE OF INVENTION: PROCESS FOR PRODUCING NUCLEIC ACIDS

; FILE REFERENCE: 0010-0879-OPCT

; CURRENT APPLICATION NUMBER: US/08/913.816C

; CURRENT FILING DATE: 1998-05-13

; PRIOR APPLICATION NUMBER: PCT/JP96/00761

; PRIOR FILING DATE: 1996-03-22

; PRIOR APPLICATION NUMBER: JP7/102888

; PRIOR FILING DATE: 1995-03-24

; PRIOR APPLICATION NUMBER: JP7/177900

; PRIOR FILING DATE: 1995-06-09

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 17

; LENGTH: 308

; TYPE: PRT

; ORGANISM: Exiguobacterium aurantiacum

US-08-913-816C-17

Query Match 7.0%; Score 83.5; DB 4; Length 308;
Best Local Similarity 25.8%; Pred. No. 0.54;
Matches 40; Conservative 25; Mismatches 57; Indels 33; Gaps 8;

QY 63 GLYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPMELEKASRELW 122
DB 40 GRVQAQNLGVLGNDVRFVSTVTNDQIGI---GVLEELRSLN-VNVEHVDLLEDNGMGW 94

QY 123 MEVWNRNEDITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVK-----NOLKE 170
DB 95 LAVMDNNGDL--QTSISKQPDDEAMME---QCILRRITVFAESTAVIDLDSLNVNLE 148

```

:
:
: GENERAL INFORMATION:
:
: APPLICANT: PLOWMAN, GREGORY
: APPLICANT: MARTINEZ, RICARDO
: APPLICANT: WHYTE, DAVID
:
: TITLE OF INVENTION: STE20-RELATED PROTEIN KINASES
:
: FILE REFERENCE: 038602/0329
:

```

Qy 153 --QGLLEKIATPKVKNLKETTAAACRYGAFGLPI-TVAVHVG 192
Db 353 DSNKLLQDSSTPLPPSQPQEPVNGPCSPQSGDGLQTTSPADG 395

RESULT 13
US-09-291-417D-154
; Sequence 154, Application US/09291417D
; Patent No. 6680170
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: MARTINEZ, RICARDO
; APPLICANT: WHYTE, DAVID
; TITLE OF INVENTION: STE20-RELATED PROTEIN KINASES
; FILE REFERENCE: 038602/0329
; CURRENT APPLICATION NUMBER: US/09/291,417D
; CURRENT FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/081,784
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 154
; LENGTH: 966
; TYPE: PRT
; ORGANISM: Murine sp.
US-09-291-417D-154

Query Match 6.8%; Score 81; DB 4; Length 966;
Best Local Similarity 21.5%; Pred. No. 5.8;
Matches 48; Conservative 35; Mismatches 72; Indels 68; Gaps 13;

Qy 16 SPYSLGFE-ILCR-----YQ-NIWNINL-----QLRPSLITGIMKDSG 52
Db 195 TPY-WNAPEVVLCTMKDAPYDKADINSLGITLEMAQIEPPHHELNPMRV--LLKIAK 251

Qy 53 NKPPGLL-PRKGLYMANDLKLRLHQLIPHPKDFLSVLMLEKSLSAMRFLTAVNLEHP 111
Db 252 SDPPTLLTSPKW-----SVEF-RDFLKIALDKN--PETRPSAAQLQHP 292

Qy 112 -----EMLEKASRELWMRVNSRNEDITEPOSILAAAEKAGMSAQA----- 152
Db 293 FVSRVTSNKALRELVAEAKAEVMEIEDGREDGEEEDAVDVPPLVNHQTQDSANVTQPSL 352

Qy 153 --QGLLEKIATPKVKNLKETTAAACRYGAFGLPI-TVAVHVG 192
Db 353 DSNKLLQDSSTPLPPSQPQEPVNGPCSPQSGDGLQTTSPADG 395

RESULT 14
US-08-855-714-3
; Sequence 3, Application US/08855714
; Patent No. 5939075
; GENERAL INFORMATION:
; APPLICANT: HOUNG, HUO-SHU H.
; APPLICANT: WARREN, RICHARD L.
; TITLE OF INVENTION: MUTANTS OF BRUCELLA MELITENSIS
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSER: JOHN MORAN, Esq.
; STREET: HQ USAMRDC, Dept. of Army, Fort Detrick
; CITY: Frederick
; STATE: MD
; COUNTRY: US
; ZIP: 21702-5012
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/855,714
; FILING DATE:
; CLASSIFICATION: 424

; CURRENT APPLICATION NUMBER: US/09/291,417D
; CURRENT FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/081,784
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 92
; LENGTH: 911
; TYPE: PRT
; ORGANISM: Murine sp.
US-09-291-417D-92

Query Match 6.8%; Score 81; DB 4; Length 911;
Best Local Similarity 21.5%; Pred. No. 5.3;
Matches 48; Conservative 35; Mismatches 72; Indels 68; Gaps 13;

Qy 16 SPYSLGFE-ILCR-----YQ-NIWNINL-----QLRPSLITGIMKDSG 52
Db 195 TPY-WNAPEVVLCTMKDAPYDKADINSLGITLEMAQIEPPHHELNPMRV--LLKIAK 251

Qy 53 NKPPGLL-PRKGLYMANDLKLRLHQLIPHPKDFLSVLMLEKSLSAMRFLTAVNLEHP 111
Db 252 SDPPTLLTSPKW-----SVEF-RDFLKIALDKN--PETRPSAAQLQHP 292

Qy 112 -----EMLEKASRELWMRVNSRNEDITEPOSILAAAEKAGMSAQA----- 152
Db 293 FVSRVTSNKALRELVAEAKAEVMEIEDGREDGEEEDAVDVPPLVNHQTQDSANVTQPSL 352

Qy 153 --QGLLEKIATPKVKNLKETTAAACRYGAFGLPI-TVAVHVG 192
Db 353 DSNKLLQDSSTPLPPSQPQEPVNGPCSPQSGDGLQTTSPADG 395

RESULT 12
US-09-688-188B-154
; Sequence 154, Application US/09688188B
; Patent No. 6656716
; GENERAL INFORMATION:
; APPLICANT: PLOWMAN, GREGORY
; APPLICANT: MARTINEZ, RICARDO
; APPLICANT: WHYTE, DAVID
; TITLE OF INVENTION: STE20-RELATED PROTEIN KINASES
; FILE REFERENCE: 038602/0328
; CURRENT APPLICATION NUMBER: US/09/688,188B
; CURRENT FILING DATE: 2000-10-16
; PRIOR APPLICATION NUMBER: 09/291,417
; PRIOR FILING DATE: 1999-04-14
; PRIOR APPLICATION NUMBER: 60/081,784
; PRIOR FILING DATE: 1998-04-14
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 154
; LENGTH: 966
; TYPE: PRT
; ORGANISM: Murine sp.
US-09-688-188B-154

Query Match 6.8%; Score 81; DB 4; Length 966;
Best Local Similarity 21.5%; Pred. No. 5.8;
Matches 48; Conservative 35; Mismatches 72; Indels 68; Gaps 13;

Qy 16 SPYSLGFE-ILCR-----YQ-NIWNINL-----QLRPSLITGIMKDSG 52
Db 195 TPY-WNAPEVVLCTMKDAPYDKADINSLGITLEMAQIEPPHHELNPMRV--LLKIAK 251

Qy 53 NKPPGLL-PRKGLYMANDLKLRLHQLIPHPKDFLSVLMLEKSLSAMRFLTAVNLEHP 111
Db 252 SDPPTLLTSPKW-----SVEF-RDFLKIALDKN--PETRPSAAQLQHP 292

Qy 112 -----EMLEKASRELWMRVNSRNEDITEPOSILAAAEKAGMSAQA----- 152
Db 293 FVSRVTSNKALRELVAEAKAEVMEIEDGREDGEEEDAVDVPPLVNHQTQDSANVTQPSL 352

Query Match 6.7%; Score 79.5; DB 4; Length 1073;
Best Local Similarity 18.1%; Pred. No. 10;
Matches 45; Conservative 32; Mismatches 84; Indels 87; Gaps 9;
QY 35 INQLRPSLITGIMKDSGNKPPGLLPRKGLY-----MANDL----- 70
Db 796 LNFMLLPRLVVKSLKEKGFVEPELYEETIYFSDIVGVFTTICKYSTPMEVVDMLNDIYKS 855
QY 71 --KLEHH-----LQPIHFPK--DFLSVMLEKGLSARPLTAVNLEHPEML 114
Db 856 FDHVDHVDYKVTETIGDAYWVAGLPKNGRHAIDIAKMALEILSFMTGELEHLPGL 915
QY 115 EKASRELWVRVMSRNEDEITEPOSILAAAEKAGSAEQAGLLEKIATPKVKNQKLTTEA 174
Db 916 -----PIWIRI-----GVHSGPCAAGVVGIMPRY-CLFGDTVNT 949
QY 175 ACRYGAFGLPIVAVHVDGQTHMLFGSDRMELLALHLLGEKWMG----- 216
Db 950 ASRMESTGLPLRI-HVSGSTIALIKTECQFLYEVGRGNETTYLTKGRGNETTYLTKMKDQKF 1008
QY 217 --PIPPAV 222
Db 1009 NLTPPTV 1016

Search completed: June 8, 2004, 17:05:31
Job time : 24 secs

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/334,129
FILING DATE: 04-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: 08/143,692
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 619-2085
TELEFAX: (301) 619-7714
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 339 amino acids
TYPE: amino acid
STRANDEDNESS: both
TOPOLOGY: unknown
MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: BRUCELLA MELITENSIS
US-08-855-714-3

Query Match 6.8%; Score 80.5; DB 2; Length 339;
Best Local Similarity 21.7%; Pred. No. 1.4;
Matches 65; Conservative 25; Mismatches 96; Indels 113; Gaps 14;
QY 3 PLPRIVELFYDVL-----PYSWLGPEILCRYQNIWNNINQLRPSLITGIMKDSGNKPPGLL 59
Db 47 PLPTSSPMNLKNCQAPPTSMKRLFCRPPHMK-----SLRTASQKSSFTKAALK 99
QY 60 PRK-GLYMANDIKLRHHLQPIHFPKDFLSVMLEKGLS-----SAMRFLTAVNLEH 110
Db 100 PRPGGSWTRKXSSPRSGALRAWH-PQDRRLGYDGKGQVRLASLDETOACNAFAAIN-KA 157
QY 111 PEMLE---KASRELWVRVMSRNEDEITEPOSILAAAEKAG----- 146
Db 158 PAILEGFVEFEFEV-----SVIAADRSGNVAIFDLAENVHKGILATST 202
QY 147 -----MSAEQAQGLLEKIA-----TPKVNQKLTTE 173
Db 203 VPAALISVQTAEARTAARKLLHALDYGVGLPEFVLKDGTLILANEFAPRVHNS-GHWTE 261
QY 174 AACRYGAF-----GLPI--TVAVHVDGQTHMLFGSD-----RMELLALHLEK 213
Db 262 AACATSQEQHTRAVAGLPLGNTDRSHDCWENLIGDDIEKVPAILCEKNAVHLYGKK 320

RESULT 15
US-09-180-245-2
Sequence 2, Application US/09180245
Patent No. 6602659
GENERAL INFORMATION:
APPLICANT: Waldman, Scott A
APPLICANT: Carrithers, Stephen L
TITLE OF INVENTION: Methods of and Kits and Compositions for Diagnosing
TITLE OF INVENTION: Colorectal Tumors and Metastasis Thereof
FILE REFERENCE: TJU2161
CURRENT APPLICATION NUMBER: US/09/180,245
CURRENT FILING DATE: 1999-03-11
EARLIER APPLICATION NUMBER: PCT/US97/07467
EARLIER FILING DATE: 1997-05-02
NUMBER OF SEQ ID NOS: 74
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 1073
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Carboxy terminal tail - nucleotides 3148-3336,
OTHER INFORMATION: corresponding to amino acids 1011-1073.
US-09-180-245-2

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 8, 2004, 17:02:30 ; Search time 55 Seconds
(without alignments)
1156.046 Million cell updates/sec

Title: US-09-441-723-1

Perfect score: 1185

Sequence: 1 MGFLPRTVELFYDLSPYSW.....AHLGKKNMGPIPPAVNARL 226

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1155919 seqs, 281338677 residues

Total number of hits satisfying chosen parameters: 1155919

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1185	100.0	226	16	US-10-408-765A-895
2	1185	100.0	240	9	US-09-876-889-349
3	1169	98.6	226	16	US-10-408-765A-836
4	326.5	27.6	107	10	US-09-764-891-5132
5	113	9.5	241	14	US-10-156-761-11189
6	92.5	7.8	255	14	US-10-156-761-8857
7	91	7.7	581	15	US-10-369-493-2888
8	90	7.6	961	12	US-10-282-122A-60126
9	89.5	7.6	495	12	US-10-425-114-69371
10	89.5	7.6	962	15	US-10-369-493-23533
11	89	7.5	545	15	US-10-413-943-20
12	89	7.5	592	15	US-10-413-943-2
13	89	7.5	592	15	US-10-413-943-4
14	89	7.5	592	15	US-10-413-943-64
15	89	7.5	592	15	US-10-413-943-67

16	89	7.5	609	15	US-10-413-943-6	Sequence 6, Appli
17	89	7.5	609	15	US-10-413-943-63	Sequence 63, Appl
18	89	7.5	751	15	US-10-413-943-59	Sequence 59, Appl
19	88.5	7.5	395	9	US-09-738-626-4728	Sequence 4728, Ap
20	88.5	7.5	399	9	US-09-738-626-6230	Sequence 6230, Ap
21	87	7.3	1330	14	US-10-156-761-10510	Sequence 10510, A
22	86.5	7.3	494	12	US-10-424-599-250302	Sequence 250302, A
23	86	7.3	355	14	US-10-156-761-14132	Sequence 14132, A
24	85.5	7.2	944	12	US-10-282-122A-73158	Sequence 73158, A
25	85	7.2	323	14	US-10-156-761-14693	Sequence 14693, A
26	85	7.2	717	12	US-10-282-122A-54089	Sequence 54089, A
27	83.5	7.0	418	12	US-10-282-122A-59909	Sequence 59909, A
28	83.5	7.0	539	15	US-10-413-943-10	Sequence 10, Appl
29	82.5	7.0	312	12	US-10-282-122A-49432	Sequence 49432, A
30	81	6.8	586	14	US-10-097-111-286	Sequence 286, App
31	81	6.8	911	10	US-09-291-417-92	Sequence 92, Appl
32	80.5	6.8	269	12	US-10-282-122A-72557	Sequence 72557, A
33	80.5	6.8	496	15	US-10-369-493-8637	Sequence 8637, Ap
34	80.5	6.8	532	15	US-10-413-943-12	Sequence 12, Appl
35	80.5	6.8	705	15	US-10-369-493-1864	Sequence 1864, Ap
36	80	6.8	245	9	US-09-738-626-6324	Sequence 6324, Ap
37	80	6.8	245	12	US-10-627-476-22	Sequence 22, Appl
38	80	6.8	540	15	US-10-369-493-45	Sequence 45, Appl
39	80	6.8	812	16	US-10-432-422-47	Sequence 47, Appl
40	80	6.8	1162	15	US-10-452-024-113	Sequence 113, App
41	79.5	6.7	547	15	US-10-369-493-23358	Sequence 23358, A
42	79.5	6.7	623	12	US-10-282-122A-61391	Sequence 61391, A
43	79.5	6.7	1073	9	US-09-819-249-2	Sequence 2, Appli
44	79.5	6.7	1073	14	US-10-157-031-18	Sequence 18, Appl
45	79.5	6.7	3133	15	US-10-369-493-18917	Sequence 18917, A

ALIGNMENTS

RESULT 1

US-10-408-765A-895
; Sequence 895, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Boi D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 895
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-895

Query Match	100.0%	Score	1185	BB	16	Length	226
Best Local Similarity	100.0%	Pred. No.	3.8e-120				
Matches	226	Conservative	0	Mismatches	0	Indels	0
Gaps	0						
QY	1	MGFLPRTVELFYDLSPYSWLGFFILCRYQWVWLNQLRPSLITGINKDSGNKPPGLLP	60				
DB	1	MGFLPRTVELFYDLSPYSWLGFFILCRYQWVWLNQLRPSLITGINKDSGNKPPGLLP	60				
QY	61	RKGLYMANDLKLRRHQLPIHFPPKDFLSVLMLEKGSLSAMFFLTAVNLEHEMLEKASRE	120				
DB	61	RKGLYMANDLKLRRHQLPIHFPPKDFLSVLMLEKGSLSAMFFLTAVNLEHEMLEKASRE	120				
QY	121	LWVRVWSRNDITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQLKTEACRYGA	180				

Db 121 LMRVWSRNEITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQKQKTEAACRYGA 180
Qy 181 FGLPITVAHVDTGTHLFGSDRMELLALHLLGKMGPIPPAVNARL 226
Db 181 FGLPITVAHVDTGTHLFGSDRMELLALHLLGKMGPIPPAVNARL 226
RESULT 2
US-09-876-899-349
; Sequence 349, Application US/09876899
; Patent No. US20020076715A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OVARIAN
; TITLE OF INVENTION: CANCER THERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.466C3
; CURRENT FILING DATE: 2001-06-06
; CURRENT APPLICATION NUMBER: US/09/876,899
; NUMBER OF SEQ ID NOS: 353
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 349
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-899-349
Query Match 100.0%; Score 1185; DB 9; Length 240;
Best Local Similarity 100.0%; Pred. No. 4.1e-120;
Matches 226; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
Db 15 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 74
Qy 61 RKGLYMANDLKLRLHLLQIPIHPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRE 120
Db 75 RKGLYMANDLKLRLHLLQIPIHPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRE 134
Qy 121 LMRVWSRNEITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQKQKTEAACRYGA 180
Db 135 LMRVWSRNEITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQKQKTEAACRYGA 194
Qy 181 FGLPITVAHVDTGTHLFGSDRMELLALHLLGKMGPIPPAVNARL 226
Db 195 FGLPITVAHVDTGTHLFGSDRMELLALHLLGKMGPIPPAVNARL 240
RESULT 3
US-10-408-765A-836
; Sequence 836, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warnock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 836
; LENGTH: 226
; TYPE: PRT

; ORGANISM: Homo sapiens
US-10-408-765A-836
Query Match 98.6%; Score 1169; DB 16; Length 226;
Best Local Similarity 99.1%; Pred. No. 2.1e-118;
Matches 224; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
Db 1 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
Qy 61 RKGLYMANDLKLRLHLLQIPIHPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRE 120
Db 61 RKGLYMANDLKLRLHLLQIPIHPKDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRE 120
Qy 121 LMRVWSRNEITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQKQKTEAACRYGA 180
Db 121 LMRVWSRNEITEPQSILAAAEKAGMSAEQAQGLLEKIATPKVKNQKQKTEAACRYGA 180
Qy 181 FGLPITVAHVDTGTHLFGSDRMELLALHLLGKMGPIPPAVNARL 226
Db 181 FGLPITVAHVDTGTHLFGSDRMELLALHLLGKMGPIPPAVNARL 226
RESULT 4
US-09-764-891-5132
; Sequence 5132, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5132
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-891-5132
Query Match 27.6%; Score 326.5; DB 10; Length 107;
Best Local Similarity 84.8%; Pred. No. 2.6e-27;
Matches 64; Conservative 4; Mismatches 3; Indels 5; Gaps 1;
Qy 41 PSLITGIMKDSGNKPPGLLPKGLYMANDLKLRLHLLQIPIHPKDFLSVMLEKGSLSAM 100
Db 25 PNULL-----AGNKPFGLLPRKGLYMANDLKLRLHLLQIPIHPKDFLSVMLEKGSLSAM 79
Qy 101 RFLTAVNLEHPEMLEK 116
Db 80 RFLTAVNLEHPEIWRK 95
RESULT 5
US-10-156-761-11189
; Sequence 11189, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089


```
/ PRIOR FILING DATE: 2001-05-30
/ PRIOR APPLICATION NUMBER: JP 2001-272697
/ PRIOR FILING DATE: 2001-08-02
/ NUMBER OF SEQ ID NOS: 15109
/ SEQ ID NO 11189
/ LENGTH: 241
/ TYPE: PRT
/ ORGANISM: Streptomyces avermitilis
US-10-156-761-11189

Query Match
Best Local Similarity 9.5%; Score 113; DB 14; Length 241;
Matches 56; Conservative 37; Mismatches 99; Indels 54; Gaps 10;

QY 6 RTVELFDVLSPYSLGPF-EILCRYQNI-----WNINLQLRPSLIITGIMKDSGNKPP--G 57
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 9 RPRFFVLSRSPYSLAYRDLDRYATAAAYEM-VFPEPELSKLLAEAGGAFYTP 67
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 58 LPRKGLYMWANDLKLRLHLLQIPHPKDFLSV--MLEKGSLSAMRFLTAVNLEHPMLE 115
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 68 MSPEKHYILQDVRRLAGERLFTWPDREPVEVPHGLYLAARH--GVGAQYIALAA 125
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 116 KASRELWVRWSN-----EDITEPQSIILAAEKAGSAQAGLLEKIAIPKVNOL 168
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 126 RARWELGLDICTVTIAGFAELGDAELATASDGLRAEGRVLE----- 174
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 169 KETTEACRYGAFGLPITVAHVDDGTHMLFGSDRMELLALHLLGEKWMG----- 216
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 175 -----IQRDGVGVGFVDFHFD----KYWGVDRLPFAFAALAAKTAADLTGVDDSGDP 224
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 217 -PIPPA 221
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 225 LPVPAA 230
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 6
US-10-156-761-8857
/ Sequence 8857, Application US/10156761
/ Publication No. US2003019018A1
/ GENERAL INFORMATION:
/ APPLICANT: OMURA, SATOSHI
/ APPLICANT: IKEDA, HARUO
/ APPLICANT: ISHIKAWA, JUN
/ APPLICANT: HORIKAWA, HIROSHI
/ APPLICANT: SHIBA, TADAYOSHI
/ APPLICANT: SAKAKI, YOSHIYUKI
/ APPLICANT: HATTORI, MASAHIRA
/ TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
/ FILE REFERENCE: 249-262
/ CURRENT APPLICATION NUMBER: US/10/156,761
/ CURRENT FILING DATE: 2002-05-29
/ PRIOR APPLICATION NUMBER: JP 2001-204089
/ PRIOR FILING DATE: 2001-05-30
/ PRIOR APPLICATION NUMBER: JP 2001-272697
/ PRIOR FILING DATE: 2001-08-02
/ NUMBER OF SEQ ID NOS: 15109
/ SEQ ID NO 8857
/ LENGTH: 255
/ TYPE: PRT
/ ORGANISM: Streptomyces avermitilis
US-10-156-761-8857

Query Match
Best Local Similarity 7.8%; Score 92.5; DB 14; Length 255;
Matches 56; Conservative 32; Mismatches 83; Indels 75; Gaps 12;

QY 2 GPLPRTVELFDVLS-----PYSLGFR-----LCRYQNIWNINLQ--LRPSLIT 45
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 10 GAVPRVVSAMEAVLSHRLGAERGDYA-IGKLPSEALCRRLEVSFPVIREALALQVM 68
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 46 GIMKDSGNKPPGLL-----PRKGLYMWANDLKLRLHLLQIPHPKDFLSVMLEKGSLSA 99
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 69 GLTASRTGKGFVLAHTVBDPTFGDYVASDLLEVRVRHVEIPV-----AGYAA 115
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

/ PRIOR FILING DATE: 2001-05-30
/ PRIOR APPLICATION NUMBER: JP 2001-272697
/ PRIOR FILING DATE: 2001-08-02
/ NUMBER OF SEQ ID NOS: 15109
/ SEQ ID NO 11189
/ LENGTH: 241
/ TYPE: PRT
/ ORGANISM: Streptomyces avermitilis
US-10-156-761-11189

Query Match
Best Local Similarity 22.8%; Pred. No. 0.0014;
Matches 56; Conservative 37; Mismatches 99; Indels 54; Gaps 10;

QY 100 MRFLTAVNLEH-PEMLKASRELWVRWSNEDITEPQSIILAAEKAGSAQAGLLEK 158
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 116 LR-RTPENLDHLAHLDRMERETDTTAVVAMDTLFH-----LTVAEAA----- 157
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 159 IATPKVNQLKETTETAACRYGAF-----GLPITVAHVDDGTHMLFGSDRME 204
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 158 -QNPVFRVIEIRDALAQSAFLNELGGRREQSNREHRAIVEALIDRSEH-----DAVE 211
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 205 LLAHLL 210
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 212 AMSHLL 217
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 7
US-10-369-493-2888
/ Sequence 2888, Application US/10369493
/ Publication No. US2003023367SAI
/ GENERAL INFORMATION:
/ APPLICANT: Cao, Yongwei
/ APPLICANT: Hinkle, Gregory J.
/ APPLICANT: Slater, Steven C.
/ APPLICANT: Goldman, Barry S.
/ APPLICANT: Chen, Xianfeng
/ TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
/ FILE REFERENCE: 38-10(52052)B
/ CURRENT APPLICATION NUMBER: US/10/369,493
/ CURRENT FILING DATE: 2003-02-28
/ PRIOR APPLICATION NUMBER: US 60/360,039
/ PRIOR FILING DATE: 2002-02-21
/ NUMBER OF SEQ ID NOS: 47374
/ SEQ ID NO 2888
/ LENGTH: 581
/ TYPE: PRT
/ ORGANISM: Thermotoga maritima
US-10-369-493-2888

Query Match
Best Local Similarity 7.7%; Score 91; DB 15; Length 581;
Matches 35; Conservative 44; Mismatches 67; Indels 38; Gaps 6;

QY 28 RYQNIW-----NINLQLRPSLIITGIMKDSGNKPPGL-----LPRKGLYMAN 68
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 343 RFENWFSYDGNKWNVLKDINDLDFQGLYALVGTGGKSTLMSLINGLIPQKGNIFD 402
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 69 DLKLRHHLQIP-----IHFPKDFL-----SYMLEKGSLSAMRFLTAVNLEHP-EMLE 115
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 403 EIPLEYNLKLVKQIAAVPDVLLFSGTILDNIRLFDESIPERVLEALKRVHALDIE 462
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 116 KASRELWVRWSNEDITEPQSIILAAEKAGM-----SAEQAGLLEKIAIPKVNQLK 169
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 463 KLPQGVYIYVERGTTLISAGERQILARAVLFDKAFILDEATSNVDVITETKIQSALE 522
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 170 ETTE 173
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 523 ELSK 526
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 8
US-10-282-122A-60126
/ Sequence 60126, Application US/10282122A
/ Publication No. US20040029129A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Liangsu
/ APPLICANT: Zamudio, Carlos
/ APPLICANT: Malone, Cheryl
/ APPLICANT: Haselbeck, Robert
/ APPLICANT: Ohlsen, Kari
/ APPLICANT: Zyskind, Judith
/ APPLICANT: Wall, Daniel
/ APPLICANT: Trawick, John
/ APPLICANT: Carr, Grant
```

```

; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 60126
; LENGTH: 961
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-10-492-122A-60126

Query Match          7.6%; Score 90; DB 12; Length 961;
Best Local Similarity 29.5%; Pred. No. 3.3;
Matches 28; Conservative 9; Mismatches 38; Indels 20; Gaps 2;

QY 126 WSRNEDITEPQSILAAAEKAGMSAEQ-----AQGLEKIATPKVKNQ 167
DB 731 WCRNKDVVNRQQLAIFNKGAGNSTDSALAAVFPNVDFFSSTAATLLGQIIQVWFYNQ 790

QY 168 LKETTEACRYGAFGLPITVAHVDTGQTHMLFGSDR 202
DB 791 LR--TEEQLGAVFAFPFPMVGVGRQWGMGFLQSSDK 823

RESULT 9
US-10-425-114-69371
; Sequence 69371, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69371
; LENGTH: 495
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-QMROPIC0001B11_F11.pep
US-10-425-114-69371

```

```

Query Match          7.6%; Score 89.5; DB 12; Length 495;
Best Local Similarity 28.6%; Pred. No. 1.4;
Matches 40; Conservative 24; Mismatches 57; Indels 19; Gaps 7;

QY 47 IMKDSGNKPPGLPRKGLYMANDKLLRHHLQPIHPKDFLSVLMLEKGSLSA-----M 100
DB 43 IMETKGD--PKVISMKEVARETAQLEQHNLSV---RD-LASKFEKGLAAAKLSEEA 96
QY 101 RFLTAVNLEHPEMLEK---ASRELWVRVMSRNDITEPOSILAAAEKAGMSAEQAQGLL- 156
DB 97 RLREAAASLEKHVLLKLRDALESILKGRVAGRND--DVEEAIAMVEALAVQLTQREGELI 154
QY 157 -EKIATPKVKNQKETEAA 175
DB 155 QKAEVKKLANFLKQASEDA 174

RESULT 10
US-10-369-493-23533
; Sequence 23533, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 23533
; LENGTH: 962
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-369-493-23533

Query Match          7.6%; Score 89.5; DB 15; Length 962;
Best Local Similarity 26.3%; Pred. No. 3.8;
Matches 30; Conservative 13; Mismatches 48; Indels 23; Gaps 3;

QY 126 WSRNEDITEPQSILAAAEKAGMSAEQA-----QGLEKIATPKVKNQ 167
DB 731 WCRNKDVVDKQSVIPEKAGNSTDSALAAVFPVTGYDEYTSAYSSLLGQIVQWPFYNQ 790

QY 168 LKETTEACRYGAFGLPITVAHVDTGQTHMLFGSDRMELLAHLGKWMGPPEA 221
DB 791 LR--TEEQLGAVFAFPFPMVGVGRQWGMGFLQSSNDKQ---PSFLWERYKAFFFTA 839

RESULT 11
US-10-413-943-20
; Sequence 20, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S.
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; TITLE OF INVENTION: That Express Feedback Insensitive Threonine Dehydratase/Deaminase
; FILE REFERENCE: PRF-07898
; CURRENT APPLICATION NUMBER: US/10/413,943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 20
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-413-943-20

```



```
/ GENERAL INFORMATION:
/ APPLICANT: Mourad, George S,
/ TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
/ TITLE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminas
/ FILE REFERENCE: PRF-07898
/ CURRENT APPLICATION NUMBER: US/10/413,943
/ CURRENT FILING DATE: 2003-04-15
/ NUMBER OF SEQ ID NOS: 69
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 67
/ LENGTH: 592
/ TYPE: PRT
/ ORGANISM: Arabidopsis thaliana
/ US-10-413-943-67

Query Match      7.5%; Score 89; DB 15; Length 592;
Best Local Similarity 22.8%; Pred No. 2.1;
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

QY 55 PFGL-LPRKGLYANDLKLRLHLLQIPHFPPKDFLSVM-----LEKGSLS-AMEFLT-- 104
Db 52 PPKLPLPR-----LKVSPNSLQ---YPAGYLGAVPERTNEAENGSIABAMEYLTNI 99
QY 105 -----AVNLEHP-EMLEKASRELAMRVMSRNEDITE-----PQSILAA 141
Db 100 LSTKYVDIAIESFLQLAKLSKRLGVRMYLKRREDLPVFSEFKLRGAYNNMYKLPADQLAK 159
QY 142 AEKAGMSAEQAQG-----LLEKIATPKVKNQKLTETEAACRYGAGFLPITVA 188
Db 160 GVICSSAGNHAQGVALSASKLGCTAVIVMPVTTPETIKQAVENL----- 203
QY 189 HVDGOTMLFGSDRMELIAHL---LGEKWMGPIPP 220
Db 204 ---GATVVLFGDSYDQAQAHAKIRAEEEGLTFIPP 235

Search completed: June 8, 2004, 17:10:37
Job time : 64 secs
```